MIL-H-7061B <u>6 Feb 85</u> SUPERSEDING MIL-H-7061A 6 Jun 1968

#### MILITARY SPECIFICATION

HOSE, RUBBER: AIRCRAFT, SELF-SEALING, AROMATIC FUEL

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 <u>Scope</u>. This specification covers one grade of self-sealing, rubber, fuel hose for aircraft use.

\* 1.2 Part number. Definitive part number shall be formulated as specified in 6.5 (See 3.6.2).

2. APPLICABLE DOCUMENTS

\* 2.1 Government documents.

\* 2.1.1 Specifications, standards, and handbooks. Unless otherwise specified, the following specifications, standards, and handbooks of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation form a part of this specification to the extent specified herein.

SPECIFICATIONS

FEDERAL

TT-S-735	Standard T	est Fluids:	Hydrocarbon.
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MILITARY

MIL-P-775	Hose, Hose Assembly, Rubber, Plastic, Fabric, or
	Metal (Including Tubing ) and Fittings, Nozzles
	and Strainers, Packaging.
MIL-C-6985	Clamp, Hose.

#### STANDARDS

FEDERAL

FED-STD-601	Rubber: S	Sampling	and Te	sting	g	
FED-STD-791	Lubricants	s Liquid	Fuels,	and	Related	Products;
	Methods of	f Testing	g.			

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: the Engineering Division, San Antonio ALC/MMEDO, Kelly AFB, Texas 78241 by using the self addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

MILITARY

MIL-STD-129	Marking for Shipment and Storage.
MIL-STD-794	Parts and Equipment Procedures for Packaging of.
MIL-STD-831	Test Reports, Preparation of.
MIL-STD-1523	Age Control of Age-sensitive Elastomeric Material.
MS28752	Fitting End, Self Sealing Fuel Hose, Swivel Detachable.
MS28753	Fitting End, Self Sealing Fuel Hose, Swivel Detach- able, Flanged, Straight.
MS28754	Fitting End, Self Sealing Fuel Hose, Swivel, Detach- able, Flanged, 45°.
MS28755	Fitting End, Self Sealing Fuel Hose, Seivel, Detach- able, Flanged, 90°.
MS28756	Hose Assembly, Detachable End Fitting, Self Sealing Fuel.
MS33658	Fitting End, Hose Connection, Standard Dimensions for.
MS33660	Tubing End Hose Connection, Standard Dimensions for.

Air Force-Navy Aeronautical

AN840 Adapter-Hose to Pipe Thread.

\* (Copies of specifications and standards required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.)

\* 2.1.2 Other publications. The following document(s) form a part of this specification to the extent specified herein. The issues of the documents which are indicated as DoD adopted shall be the issue listed in the current DoDISS and the supplement thereto, if applicable.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM D 3951 Standard Practice for Commercial Packaging.

 \* (Application for copies of ASTM publications should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

FEDERAL SUPPLY CODE FOR MANUFACTURERS

Cataloging Handbook H4-1

\* (Applications for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington D.C. 20402.)

\* 2.1.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence.

3. REQUIREMENTS

\* 3.1 First article. When specified, a sample shall be subjected to first article inspection (see 4.4 and 6.3).

3.2 <u>Materials</u>. Materials not specified herein or on applicable drawings (see 6.2), shall be of such quality as to be free from defects which might adversely affect performance.

\* 3.3 Design and construction. Hose shall be constructed of a seamless, smooth bore compounded inner tube, a reinforcement, and an outer compounded cover. The hose shall be constructed as to permit ready assembly with standard hose fitting connection ends, tubing ends, pipe threaded adapters, and hose clamps conforming to AN840, MS28752, MS28753, MS28754, MS28755, MS28756, MS33660, MS33658, MIL-C-6985, and applicable drawings (see 6.2).

3.3.1 <u>Outer cover</u>. The outer cover shall consist of an abrasion-resistant, mildew inhibiting, chloroprene polymer of uniform thickness, free from pitting and suitably compounded to meet the requirements of this specification.

3.3.2 <u>Reinforcement</u>. The reinforcement shall consist of ply or plies so applied that the finished hose shall conform to the physical requirements of this specification.

3.3.3 <u>Inner tube</u>. The inner tube shall be of uniform thickness, seamless construction, and compounded with the necessary ingredients to insure permanent form and render suitable service. It shall have a smooth bore and shall be clean and free from pitting consistent with best commercial practice.

3.4 Size.

\* 3.4.1 <u>Diameters</u>. The inside and outside diameters shall conform to Table I, for normal size specified (see 6.2).

Size	Nominal Size	Inside Diameter	Outside (Inc	Diameter ches)
Code	(Inches)	(Inches)	Minimum	Maximum
062 075 100 125 150 200 250 300	.625 .750 1.000 1.250 1.50 2.000 2.500 3.000	$\begin{array}{r} .625 + .016 \\ .750 + .031 \\ 1.000 + .031 \\ 1.250 + .031 \\ 1.500 + .031 \\ 2.000 + .031 \\ 2.500 + .031 \\ 3.000 + .031 \end{array}$	1.234 1.359 1.609 1.906 2.156 2.656 3.156 3.844	1.328 1.453 1.703 2.031 2.281 2.781 3.281 3.696

TABLE I. Size.

\* 3.4.2 Length. The hose shall be furnished in 40 foot minimum lengths unless definite cut lengths are otherwise specified by the procuring activity. Ten percent of the long lengths may be furnished in random lengths over ten feet. A tolerance of .250 inch will be permitted in lengths of less than 3 feet. For lengths 3 to 10 feet inclusive, a tolerance of +1 inch will be allowed and for lengths over 10 feet, a tolerance of +1 percent will be allowed. All ends on cut lengths shall be squarely cut.

# \* 3.5 Performance (See 3.5).

\* 3.5.1 Original properties. Physical characteristics of the hose shall conform to the requirements of table II prior to the aging tests, fuel immersion test, and fuel soaking test.

Properties	Values
Electrical resistivity (ohms/ft) max Hydrostatic burst pressure (lb/sq in) min .625 in ID to 1.00 in ID inclusive. 1.250 in ID to 1.500 ID inclusive. 2.00 in ID to 3.00 in ID inclusive. Blow-off test (lbs/sq in) min Vacuum collapse Adhesion - tube to carcass (lb/in) min Adhesion - cover to carcass (lb/in) min Cover tensile (lbs/sq in) min Cover tensile (lbs/sq in) min	450,000 400 250 150 150 No total collapse (1) 12 8 1,000 200

TABLE II. Original properties.

(1) Total collapse is specified as the reduction in outside diameter to the value stated below at the indicated vacuum requirements, table III.

Nominal size (Inches)	Minimum OD in inches at total collapse	Vacuum requirements
.625	1.000	Curved-radius 6 x ID 20 in Hg for 20 min
.750	1.125	Curved-Radius 6 x ID 20 in Hg for 20 min
1.000	1.250	Curved-radius 6 x ID 20 in Hg for 20 min
1.250	1.750	Straight-12 in Hg for 20 min
1.500 2.000 2.500 3.000	1.750 2.000 2.500 3.000	Straight-6 in Hg for 20 min Straight-4 in Hg for 20 min Straight-2 in Hg for 20 min Straight-2 in Hg for 20 min

TABLE III. Vacuum requirements.

\* 3.5.2 Aging properties. The physical characteristics of the hose shall conform to table IV after being subjected to the aging tests, fuel immersion tests, and fuel soaking test in type II fuel.

TABLE IV. Properties after aging.

Fuel immersion type II fuel Tube tensile (lb/sq in) Tube elongation (percent) min	400 150
Volume increase of tube (percent) max Volume increase of cover (percent) max	90 90
Fuel aging type II fuel Adhesion-tube to carcass (lb/in) min Adhesion-cover to carcass (lb/in) min	6 4
Blow-off test (lb/sq in) min	150

# 3.5.3 Gunfire.

\* 3.5.3.1 <u>Gunfire (type II fuel</u>). During gunfire tests at an ambient temperature of 15.6° to 37.8° centigrade (C) (60° to 100° Farenheit (F) each hole shall completely seal within 2 minutes at a pressure of 20 pounds per square inch (psi). Gunfiring test at a temperature of -28.9°C (-20°F) and 16 psi pressure shall seal completely within 5 minutes.

3.5.3.2 <u>Gunfire (type I fuel</u>). During gunfire tests at an ambient temperature of  $\overline{15.6^{\circ}}$  to  $37.8^{\circ}$  C ( $60^{\circ}$  to  $100^{\circ}$ F) sealing shall occur at 6 pounds fuel pressure within 2 minutes. Slight seepage, but no spurting after the first 30 seconds will be permitted when the hose is punctured by gunfire at  $-28.9^{\circ}$ C ( $-20^{\circ}$ F) with 3 psi fuel pressure. The hose shall not shatter as a result of gunfire at  $-28.9^{\circ}$ C ( $-20^{\circ}$ F).

3.5.4 <u>Flexing</u>. There shall be no leaking, tube separation, or progressive cracking when tested as described herein (see 4.6.7).

3.5.5 <u>Gum extraction</u>. There shall be a maximum of 6000 milligrams per 100 milliliters of residue in the extract when tested according to the method described in 4.6.8.

3.5.5.1 <u>Insoluble residue</u>. The insoluble residue shall not exceed 10 milligrams per 100 milliliters (see 4.6.8.1).

\* 3.5.6 <u>Reduction in inside diameter</u>. A .844 inch diameter ball shall fall freely through the soaked bore of a one-inch inside diameter hose after the hose has been treated as described in 4.6.11.

#### 3.6 Marking.

3.6.1 The outer cover of bulk hose or hose in hose assemblies shall be marked with a red stripe along its length approximately parallel to the longitudinal axis. The stripe may be colored gum, inlaid on the cover, or gasoline and oil-resistant lacquer of the proper color.

\* 3.6.2 Each piece of hose shall be branded by means of a gasoline and oil resistant lacquer with, MIL-H-7061, type, size, date of manufacture in quarter of year, and the manufacturer's code as designated in the Federal Supply Code for Manufacturers, Cataloging Handbook H4-1. The marking shall be placed immediately above the color line, repeated at intervals of not more than 12 inches along the hose. In addition, hose assemblies shall have an attached tag marked legibly with the following: (See 1.2 and 6.5).

Government part number Date of assembly MIL-H-7061

\* 3.7 Age. Hose assemblies shall meet the age requirements as specified in MIL-STD-1523.

\* 3.8 <u>Workmanship</u>. Workmanship shall be such as to produce hose and hose assemblies free from defects such as cracks, cuts, breaks, blisters, looseness, exposed braid, and restricted hole through and fittings. Surface irregularities such as mold marks, laps, or air bubbles, as distinguished from cracks or cuts, shall not be cause for rejection.

4. QUALITY ASSURANCE PROVISIONS

\* 4.1 <u>Responsibility for inspection</u>. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

\* 4.2 <u>Classification of tests</u>. The inspection and testing of hose shall be classified as follows:

- a. First article inspection (see 4.4)
- b. Quality conformance inspection (see 4.5)
- 4.3 Test conditions.

4.3.1 <u>Fuel</u>. All fuels utilized in the testing of hose outlined in this specification shall conform to TT-S-735. The types of fuel referred to in this specification refer to type I, II, and III as specified in TT-S-735.

\* 4.4 First article inspection. (See 3.1 and 6.3).

\* 4.4.1 <u>Test samples</u>. The first article sample shall consist of 50 feet of 1 inch inside diameter hose. Additional hose will be used as necessary to check questionable test results.

4.4.1.1 <u>Test report</u>. A test report shall be prepared in accordance with MIL-STD-831.

\* 4.4.2 <u>Tests</u>. First article inspection shall consist of all the tests of the specification except where otherwise noted.

\* 4.5 <u>Quality conformance inspection</u>. Quality conformance inspection shall consist of the following:

a. Individual tests (see 4.5.1).

b. Sampling tests (see 4.5.2).

4.5.1 <u>Individual tests</u>. Each length of hose submitted for acceptance under contract shall be subjected to the following tests:

a. Examination of product

b. Proof pressure

4.5.2 <u>Sampling tests</u>. A five foot sample shall be selected from each 10,000 feet, or less, of hose of the same size produced consecutively, and subjected to the following tests, as described under "Test Methods" of this specification:

a. Tensile

b. Adhesion

c. Volume increase

d. Fuel immersion

e. Resistivity

f. Proof pressure

g. Vacuum

h. Size

4.5.2.1 In addition, the hose may be subjected to any other test specified herein which the procuring activity considers necessary to determine conformance with the requirements of this specification. Samples submitted to destructive tests shall be in addition to the quantity ordered and shall be furnished without additional cost to the Government.

4.5.2.2 If hose is being produced continuously, only one 5 foot sample need be selected from each day's production. The size of hose selected for the sample shall be rotated each day in relation to the volume of production.

4.5.3 <u>Rejection and retest</u>. When tests on a quantity of hose selected as representative of a certain lot show one or more of the number as failing to meet the requirements, the lot shall be rejected. Hose which has been rejected may be reworked or replaced to correct the defects and resubmitted for acceptance. Before resubmitting, full particulars concerning previous rejection and the action taken to correct the defects found in the original shall be furnished the inspector. Hose rejected after retest shall not be resubmitted without the specific approval of the procuring activity.

\* 4.6 Test Methods. (See 3.5)

4.6.1 <u>Examination of product</u>. All hose shall be carefully examined to determine conformance with this specification with respect to materials, workmanship, construction and marking.

4.6.2 <u>Proof pressure</u>. Each length of hose shall be subjected to 100 +15 pounds of air pressure for 5 minutes, and shall show no signs of leaking through the hose wall or blistered covers while under this pressure.

\* 4.6.3 <u>Size</u>. Measurements for size shall be made by snugly fitting hose over a .016 inch stepped mandrel.

4.6.4 <u>Gunfire</u>. Hose shall be filled with specified fuel for 7 days at  $21.1^{\circ}$  to  $26.7^{\circ}$  (70° to  $80^{\circ}$ F) before the firing test is made. Lengths of this hose shall be attached to a manifold into which fuel shall be allowed to enter; fill and apply specified pressure. The hose shall then be subjected to three or more impacts of caliber 0.50 ball M-2 ammunition at a distance of 50 to 60 yards. The projectiles shall take effect at least 2 inches apart.

\* 4.6.5 <u>Blow-off</u>. Six one foot lengths of one inch inside diameter hose shall be applied to one inch fuel fittings which conform to AN840 with one clamp, in accordance with MIL-C-6985 applied .250 inch from the extreme end of the hose, and tightened with 25 inch-pounds torque on the thumb-screw. Two of these assemblies shall have hydraulic pressure applied at the rate of 1000 psi per minute within 1 hour after original tightening of the clamp, and the pressure at which the hose blows off or bursts shall be recorded.

4.6.5.1 <u>Aged blow-off</u>. Two of these assemblies shall be filled with type II fuel and allowed to stand for four weeks without retightening the clamp. Hydraulic pressure shall then be applied at the rate of 1000 psi per minute. The pressure at which the hose blows off or bursts shall be recorded. This test shall be repeated with the remaining two assemblies using type I fuel.

4.6.5.2 <u>Blow-off (original)</u>. Two assemblies fabricated with AN840 fittings and hose clamps shall have hydraulic pressure applied at the rate of 1000 psi per minute within 1 hour after original tightening of the clamp, and the pressure at which the hose blows off or bursts shall be recorded.

4.6.5.3 <u>Aged blow-off</u>. Two assemblies fabricated with AN840 fittings and hose clamps shall have hydraulic pressure applied at the rate of 1000 psi per minute, after allowing the assemblies to stand four weeks filled with type II fuel, without retightening the clamp. The pressure at which the hose blows off or bursts shall be recorded. This test shall be repeated on hose filled with type I fuel.

4.6.6 <u>Burst pressure</u>. Two 1 foot lengths of each size hose shall be assembled with applicable detachable end couplings conforming to MS28752, MS28753, MS28754, MS28755, and MS28756. One assembly of each type coupling shall be subjected to the burst pressure specified in table II, using fuel conforming to TT-S-735, or water. The fittings shall not leak, burst or blow off the hose. The burst pressure test shall be conducted in accordance with the hydrostatic pressure test of FED-STD-601.

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4.6.6.1 <u>Burst pressure (aged)</u>. The burst pressure test shall be repeated using assemblies which have been allowed to stand for 4 weeks filled with type II fluid of FED-STD-601, without retightening the assembly.

\* 4.6.7 <u>Flexing</u>. Two 16 to 17 inch lengths of hose shall be installed on a flexing machine equipped with one inch fuel fittings, which conform to drawing AN840, with one clamp in accordance with MIL-C-6985, applied .250 inch from the extreme end of the hose and tightened with 25 inch-pound torque on the thumb-screw. The flexing machine shall be designed to give a total amplitude of .250 inch (.125 inch on each side of the center) at 1725 complete cycles per minute (3450 reversals). One length of hose shall be subjected to fuel under 15 psi pressure. The other length shall be subjected to fuel under 8 inches of mercury vacuum. Both pieces shall be flexed a total of 1000 hours, but the hose shall be examined each week. (See 3.5.4).

\* 4.6.8 <u>Gum extraction</u>. A 14 inch length of one inch inside diameter hose shall be stoppered with suitable leak-proof plugs and filled with 150 milliliters of type II fuel, at a temperature of from 21.1° to 26.7°C (70° to 80°F) for a period of 24 hours. A copper strip shall be suspended in a sample of this solution in accordance with method for detection of free sulfur and corrosive sulfur compounds in gasoline in accordance with FED-STD-791, except that the time of immersing shall be 20 hours. No dark brown or black corrosion shall be present. The extract shall then be tested according to the method for gum content of gasoline (copper dish method) of FED-STD-791, except that a glass dish shall be used instead of a copper dish and the over drying time shall be for 30 minutes at a temperature of 100°C (212°F). (See 3.5.5)

\* 4.6.8.1 <u>Insoluble residue</u>. The nonvolatile material remaining in the glass dish after evaporation of the fuel shall be washed ten times with 50 milliliter portions of type II fuel. After each 50 milliliters of liquid is added to the gum in the dish, the mixture shall be allowed to stand for not more than 5 minutes. The washings shall be filtered through a weighed gooch crucible. The gooch crucible and evaporating dish shall then be dried and reweighed. The increase in weight of the gooch crucible plus the weight of the gum remaining in the dish shall be considered the weight of the insoluble residue. (See 3.5.5.1)

4.6.9 Volume increase. The weight of water displaced in the jolly, or other suitable balance, by each of three buffed specimens, 1 inch by 2 inches, taken from the tube and cover, shall be determined before and after 24 hours immersion in type II fuel. After removal, the specimen shall be dipped in alcohol, lightly wiped, and the determination made within 5 minutes after removal from the fuel. The displacement after fuel immersion minus the initial displacement, divided by the initial displacement, times 100 shall be considered as the percentage increase in volume.

4.6.10 Electrical resistance. Two clamps, in accordance with MIL-C-6985, shall be placed 12 inches apart on a specimen of hose to insure intimate contact with the cover. A standard ohmmeter having a suitable range shall be used to determine the electrical resistance. The test'shall be accomplished in a standard atmosphere of 65 percent relative humidity at a temperature of  $21.1^{\circ}$  to  $26.7^{\circ}$ C ( $70^{\circ}$  to  $80^{\circ}$ F) and the specimen shall be exposed to these conditions for at least 1 hour before the resistance test is accomplished.

\* 4.6.11 <u>Reduction in inside diameter</u>. A 14 inch length of 1 inch inside diameter hose shall be filled with type II fuel, stoppered with leak-proof plugs and held at a temperature of  $21.1^{\circ}$  to  $26.7^{\circ}C$  ( $70^{\circ}$  to  $80^{\circ}F$ ) for 1 month. Liquid shall then be removed and the reduction in inside diameter determined by dropping spherical balls through the bore of the hose while held in a vertical position. (See 3.5.6)

4.6.12 Tensile.

4.6.12.1 First article inspection. Tensile test specimens cut from the inner tube shall be immersed in type II fuel, at a temperature of 21.1° to 26.7°C (70° to 80°F) for periods varying from 1 to 14 days. Measurement of the specimens shall be made before immersion. Specimens shall be removed from the liquid each day for 7 days and tested within 5 minutes. Additional specimens shall be tested at the end of 10 and 14 days. The tensile strength, after immersion, shall reach equilibrium within 6 days.

4.6.12.2 Inspection test. Test specimens from the tube and cover shall be buffed and dumb-bell specimens (figure B, FED-STD-601) prepared and tested in accordance with FED-STD-601. Aged specimens shall be immersed in type II fuel at a temperature between 21.1° and 26.7°C (70° to 80°F) for a period of 24 hours and then be tested within 5 minutes after removal. All calculations of tensile strength shall be made using the original cross-sectional area measurements.

4.6.13 Adhesion (type II fuel).

4.6.13.1 First article inspection. A 6 inch length of hose shall be stoppered with suitable leak-proof plugs, filled and maintained with type II fuel at a temperature of from 21.1° to 26.7°C (70° to 80°F). After 7 days aging period, specimens shall be cut from the center of the length of hose and tested for adhesion as set forth in FED-STD-601 within 25-30 minutes after removal of the fuel and shall conform to requirements of table IV.

4.6.13.2 Inspection test. All adhesion tests shall be run in accordance with FED-STD-601. Fuel aged specimens shall be cut from center of a 6 inch length of hose which had been stoppered with suitable leak-proof plug, filled and maintained at 21.1° to 26.7°C (70° to 80°F) for 24 hours with type II fuel. Aged adhesion tests shall be accomplished within 25 minutes after the removal of the fuel.

4.6.14 <u>Vacuum (inspection test only)</u>. This test shall be accomplished by plugging one end of a 2 feet section of hose and connecting the opposite end to a vacuum pump. The hose shall be bent in a radius, unless otherwise specified in table III, of six times the inside diameter of the specimen, (1 inch inside diameter tested on a 6 inch radius) and the specified vacuum applied for 20 minutes after which the outside diameter shall be measured to determine the degree of collapse. The radius shall be measured to the inside of the coil.

4.7 Inspection of the preservation, packaging, packing and marking for shipment and storage. Sample items or packs and the inspection of the preservation, packaging, packing and marking for shipment and storage shall be in accordance with the requirements of section 5, or the documents specified therein.

\* 5. PACKAGING

- \* 5.1 <u>Preservation and packaging</u>. Preservation and packaging shall be level A, C or commercial as specified (see 6.2).
- \* 5.1.1 Level A. Hoses shall be preserved and packaged in accordance with applicable level A requirements of MIL-P-775.
- \* 5.1.2 Level C. Hoses shall be preserved and packaged in accordance with the applicable level C requirements of MIL-STD-794.
- \* 5.1.3 <u>Commercial</u>. The commercial/industrial preservation and packaging of hoses shall be in accordance with the requirements of ASTM D 3951.
- \* 5.2 <u>Packing</u>. Packing shall be level A, B, C or commercial as specified (see 6.2).
- \* 5.2.1 Level A. Hoses shall be packed in accordance with applicable level A requirements of MIL-STD-794.
- \* . 5.2.2 Level B. The packaged hoses shall be packed in containers as specified in MIL-STD-794 for level B protection.
- \* 5.2.3 Level C. The packaged hoses shall be packed in containers as specified in MIL-STD-794 for level C protection.
- \* 5.2.4 <u>Commercial</u>. The packaged hoses shall be packed in accordance with the requirements of ASTM D 3951.
- \* 5.3 Marking.
- \* 5.3.1 Levels A, B, and C. In addition to any special or other identification marking required by the contract (see 6.2), each unit pack, intermediate and exterior container and unitized load shall be marked in accordance with MIL-STD-129.
- \* 5.3.2 <u>Commercial</u>. Commercial/industrial marking shall be in accordance with the requirements of ASTM D 3951.
  - 6. NOTES

6.1 Intended use. The hose and hose assemblies covered by this specification are intended for use in aromatic fuel lines where self-sealing performance is required.

\* 6.2 Ordering data.

- \* 6.2.1 <u>Acquisition requirements</u>. Acquisition documents should specify the following:
  - a. Title, number and date of this specification.
  - b. Length and inside diameter of hose.
  - c. Materials not specified in specification or on applicable drawings (see 3.2).

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- d. Selection of applicable level or preservation, packaging and packing (see 5.1 and 5.2).
- e. Definitive part number required (see 1.2, 3.6.2, and 6.5).

\* 6.3 First article inspection. The first article shall be as specified in
4.4. Request for waiver of first article shall be forwarded to SA-ALC/MMIRCC,
Kelly AFB, TX 78241 by the procuring activity for approval/disapproval. (See 3.1).

\* 6.4 Definitive part number. The part number shall be formulated as shown: (See 1.2 and 3.6.2)

	<u>M7061</u>	$- \frac{XXX}{1}$	$-\frac{XXX}{T}$
Military specification number			
Hose size code (see table I)			
Length in feet (See 3.4.2).			

\* 6.5 <u>Changes from previous issue</u>. The margins of this specification are marked with asterisks to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians: Air Force - 99 Navy - AS

Review activities: Air Force - 85 Army - AV

User activity: Army - ME Preparing activity: Air Force - 82

(Project 4720- 065**8**)

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**NOTE:** This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of **specification requirements** on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

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OFFICIAL BUSINESS PENALTY FOR PRIVATE USE \$300

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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL (See Instructions – Reverse Side)		
1. DOCUMENT NUMBER	2. DOCUMENT TITLE	
MTL-H-7061B	Hose, Rubber, Aircraft, Self-Se	aling Aromatic Fuel
34 NAME OF SUBMITTING ORGAN	IZATION	4. TYPE OF ORGANIZATION (Mark one)
		VENDOR
		USER
b. ADDRESS (Street, City, State, ZIP (	Code)	
		OTHER (Specify):
5. PROBLEM AREAS		
د. Paragraph Number and Wording:		• 1 •
b. Recommended Wording:		
c. Reason/Rationale for Recommer	ndation:	
6.9544975		
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7a. NAME OF SUBMITTER (Last, Fir	st, MI) — Optional	b. WORK TELEPHONE NUMBER (Include A Code) Optional
c. MAILING ADDRESS (Street, City,	State, ZIP Code) — Optional	8. DATE OF SUBMISSION (YYMMDD)

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